

# ABSTRACT

RG A molded polyurethane body is ~~free of by products capable~~  
~~of migrating and has high light fastness as well as improved~~  
~~temperature stability.~~ The molded polyurethane body is  
5 obtainable by reacting:

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- a) one or more aliphatic polyols having a molecular weight  
of 450 to 6000 g/mol and a hydroxyl value of 10 to 235;
- b) with aliphatic and/or cycloaliphatic diisocyanates in an  
equivalent ratio of diisocyanate to polyol of 1.2 : 1.0  
to 16.0 : 1.0;
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- c) with diols as chain lengthening agents having a molecular  
weight of 60 to 450 g/mol, the/NCO index formed from the  
quotient, which is multiplied by 100, of the equivalent  
ratio of isocyanate groups to the sum of the hydroxyl  
groups of polyol and chain lengthening agents lying  
within a range of 90 to 105; and
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- d) with an at least bifunctional reaction component, which  
is suitable for subsequent cross-linking, ~~and which reacts~~  
~~with the terminal hydroxyl groups of the polyurethane~~  
~~chain as well as with the acidic hydrogen atoms of the~~  
~~urethane groups and leads to branched-chain reactions,~~  
~~the thermoplastic polyurethane formed by conversion from~~  
~~the components a) through c) in a first step being~~  
~~homogenously mixed in a second step with 0.2 to 25 parts~~  
~~by weight of the component d) with respect to 100 parts~~  
~~by weight of the thermoplastic polyurethane, formed into~~  
~~a molded body, and subsequently cross-linked at~~  
~~temperatures from 80 to 240°C.~~
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